

The Kingfisher Bulletin

Offshore News

OIL AND GAS

23 AUGUST 2018 | ISSUE 17

Shaded blocks indicate activity.

What's inside?

New Hazards (p.3)

Area 1 (p.4-8)

1. Notice to Fishermen
2. Seabed Activity

Area 2 (p.9-13)

1. Notice to Fishermen
2. Seabed Activity

Area 3 (p.14-15)

1. Notice to Fishermen
2. Seabed Activity

Area 4 (N.A)

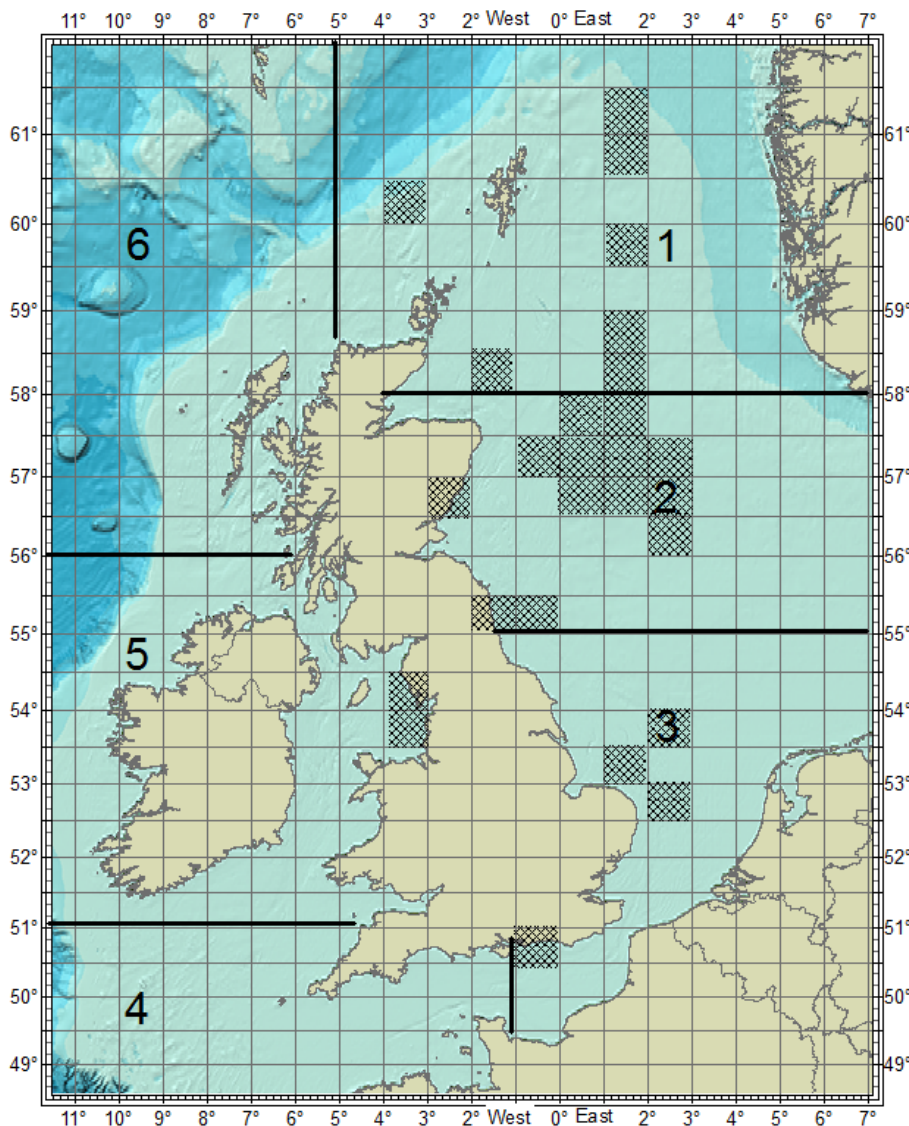
Area 5 (p.16)

1. Seabed Activity

Area 6 (N.A)

Extra... (p.17-23)

1. Rig List
2. Anchor List
3. Survey List



STAY UPTO DATE - ALWAYS ENSURE YOU HAVE THE LATEST KINGFISHER BULLETIN AND OFFSHORE FISHING PLOTTER DATA ON-BOARD.

SEAFISH | The Kingfisher
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Support

The Kingfisher Bulletin is provided by the Kingfisher Information Service of Seafish, to promote awareness of offshore hazards to fishermen, new structures and zones and conflicting offshore operations. Support for publication of oil and gas industry information in this Bulletin is part of the project 'Fishing Safely in Changing European Waters 2016-2019' promoted by FLTC Services Ltd. The European Union through the European Maritime and Fisheries Fund and the Scottish Government have awarded substantial grants towards the costs of the project.



For further information, please visit: www.fishsafe.eu/en/contact-us/funding

Information

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New Hazards



Area 1 Hazard List

Hazard Type	Position	Issue Date	Contact Details	Map
Murchison Wellhead Protection Structure 7.5m x 7.5m x 7.5m Well 211/19-2	61°23.382'N 01°44.050'E	03 May 2018	Carolyn Toshney Carolyn.Toshney@cnrl.com	
Significant free-spans have been identified along the PL1043 Dunbar to Alwyn pipeline	60°38.646'N 01°39.193'E 60°38.713'N 01°39.207'E 60°39.017'N 01°39.267'E 60°39.033'N 01°39.271'E	31 May 2018	David Colliard, email: david.colliard@total.com	
New suspended wellhead on seabed (211/23b-11)	60° 38.713' N 1° 39.207' E	15 May 2018	Fairfield Energy, Tel: +44 (0)1224 320708	
Removal of protective structure for wellhead 211/19-2 (8m x 8m x 7m)	60° 39.017' N 1° 39.267' E	03 May 2018	CNR International Ltd, Tel: +44 1224 303600	


Area 2 Hazard List

Hazard Type	Position	Issue Date	Contact Details	Map
Sunken buoy with heavy weight and anchor	57°00.668'N 000°05.671'W	31 May 2018	Raymond Hall, Tel: 01224 646944 email: R.Hall@sff.co.uk	

Area 3 Hazard List

Hazard Type	Position	Issue Date	Contact Details	Map
Anchor approx. 3.5m x 1.8m	50°41.147'N 000°17.657'W	28 June 2018	Gordon Bain (Eon Marine Coordination) +44(0)7787241442	
Significant Pipeline Span on PL21 from Hewett to Bacton (37m long and 1m high)	53°01.482'N 001°43.673'E	15 May 2018	ENI, Tel: 020 7344 6342	

Area 5 Hazard List

Hazard Type	Position	Issue Date	Contact Details	Map
Anchor Warrenpoint Channel	54°04.899'N 006°13.472'W	23 Aug 2018	Capt. Catriona Dowling, Tel: +44 (0)28 4177 3381 email: CDowling@warrenpointharbour.co.uk	

Notice to Fishermen

First Published: 09 August 2018 | Latest Update: 09 August 2018

Fishing Hazard - Orlando Suspended Wellhead & Tree 3/3b-13Y



Permanent installation - Orlando Suspended. Wellhead and Tree. Presently No Safety Zone in place.

Height 242.81cm, Width 309.94cm, Length 390.94cm, Water Depth 565 ft.

Position: 60°56.671'N 01°33.686'E

For further information: Gavin Kerr, +44 (0)1224 629156, AGR Well Management Ltd. (Well Operator). Email: gavin.kerr@agr.com

Notice to Fishermen

First Published: 19 April 2018 | Latest Update: 19 July 2018

Fishing Hazard – Miller Platform Decommissioned Jacket Footings



The Miller jacket was removed on the 12 July 2018, together with the two temporary nav aid lights. 4 Jacket footings and remains of the cut jacket remain in situ (rising up to 22m from the seabed) and offer a significant snagging risk.

Position: 58°43.304'N 001°24.005'E

For further information: Alistair Bridges, Petrofac Facilities Management Ltd, +44(0)1224 345425, alistair.bridges2@petrofac.com

Notice to Fishermen

First Published: 31 May 2018 | Latest Update: 31 May 2018

Fishing Hazard – Free-spans on Dunbar to Alwyn pipeline



Significant free-spans have been identified along the PL1043 Dunbar to Alwyn pipeline

Position	Length (m)	Height (m)
60° 38.646' N 1° 39.193' E	32	0.9
60° 38.713' N 1° 39.207' E	25	0.8
60° 39.017' N 1° 39.267' E	11	0.8
60° 39.033' N 1° 39.271' E	11	1.0

For further information: David Colliard, Total E&P UK Limited, Tel: 01224 298172 email: david.colliard@total.com

Notice to Fishermen

First Published: 03 May 2018 | Latest Update: 03 May 2018

Fishing Hazard – Murchison Wellhead Protection Structure



Removal of protective structure for wellhead 211/19-2 and wet storage on the seabed.

The 7.5m x 7.5m x 7.5m wellhead protection structure to be removed from the foundation structure and wet-stored alongside the space-frame on the seabed. The 8m x 8m x 7m space-frame structure remains in position fixed to the seabed with foundation piles. Both structures are considered a significant hazard due to exposed guideposts etc

Removal of the protective structure will take place in the period after 26 May 2018 and will remain in this configuration until full removal in 2019.

Well	Coordinates
Well 211/19-2	61°23.382'N 01°44.050'E

For further information: Carolyn Toshney, CNR International Ltd, Tel: +44 1224 303600 email: Carolyn.Toshney@cnrl.com

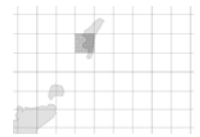
Fishing Hazard – Laggan / Tormore Pipelines – Orka Voe



One 8in pipeline and one 6in umbilical from Laggan and Tormore fields are currently exposed in the nearshore section close to landfall. The exposed sections are in the following area:

60° 29.319' N 1° 15.213' W
 60° 29.304' N 1° 15.108' W
 60° 28.993' N 1° 15.281' W
 60° 29.007' N 1° 15.386' W

Where water depth is between 20 and 35m. Fishing activities shall be avoided in this area, as there is potential for snagging.



For further information: David Colliard, Total E&P UK Limited, Tel: 01224 298172 email: david.colliard@total.com

Seabed Activity

First Published: 14 June 2018 | Latest Update: 21 August 2018

Decipher Production Ltd – Orlando Field - Development



The Orlando Field is located in Block 3/3b in the Northern North Sea approximately 390km North-Northeast of Aberdeen and 11km North East of the Ninian Central Platform (NCP) in a water depth of 142m. The Orlando field will be developed as a subsea tie-back to the NCP, operated by Canadian Natural Resources International (CNRI).

The subsea pipeline system will comprise an 8" / 12" Pipe in Pipe (PiP) production pipeline connected between the Orlando production well (P1) and the new Subsea Isolation Valve (SSIV) structure situated within the NCP 500m safety zone. The pipeline is connected at either end using rigid tie-in spools. A flexible free-hanging catenary production riser will connect the SSIV structure to the NCP topside production facilities.

There are 2 main pipeline crossings, PL1526 owned and operated by Total, situated approximately mid-way along the pipeline route and PL917 which is owned and operated by CNRI which is located within the NCP 500m safety zone.

The Electric/Hydraulic/Chemical (EHC) umbilical will be formed in 2 parts, a free-hanging catenary dynamic umbilical will connect the NCP topside controls system to the SSIV structure and a second static umbilical will be installed between the SSIV structure and the Orlando production well (P1).

The free-hanging production riser and dynamic umbilical will be anchored to the seabed at their respective Touch Down Points via 'riser bases'. The 'riser bases' are simple steel gravity structures that restrain the free-hanging products. The umbilical will follow the pipeline route offset along the majority of the length by 30m except at either end and at the crossing locations where separation will be reduced to a minimum of 1m.

The pipeline and umbilical will be trenched to approx. 1.6m below the seabed with the untrenched ends, and crossing locations protected by a combination of concrete mattresses and rockdump. The rigid spools and controls jumpers will be protected by concrete mattresses. No protection is required on the production riser or dynamic umbilical as these are well within the NCP 500m safety zone, however concrete mattresses will be placed at intervals for stability purposes only.

Vessel activity in the area is as follows:

Vessel	Activity	Start Date	End Date
Skandi Africa	Pre-Commissioning, Metrology & Survey Support	21/08/2018	06/09/2018
Normand Pioneer	Pipeline Trenching & Back-Filling	23/08/2018	02/09/2018
Normand Vision	Umbilical Installation	07/09/2018	18/09/2018
Stones	Rock Dumping	14/09/2018	22/09/2018
Normand Pioneer	Umbilical Backfilling	15/09/2018	22/09/2018
Deep Explorer	Diving - Tie-Ins etc	01/10/2018	16/10/2018

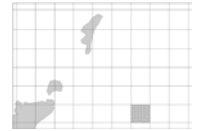
The co-ordinates for the proposed operations are listed below::

Location	Coordinates
NCP Platform Centre	60°51.376'N 001°28.042'E
Umbilical Riser Base	60°51.398'N 001°28.256'E
Production Riser Base	60°51.446'N 001°28.179'E
SSIV Structure	60°51.487'N 001°28.222'E
PL917 Crossing	60°51.567'N 001°28.216'E
PL1526 Crossing	60°53.844'N 001°30.465'E
Orlando Well (P1)	60°56.671'N 001°33.686'E

For further information: Steve Dempster, Petrex Developments Ltd, Tel +44 1224 452 125, e-mail: sdempster@petrex.co.uk

Balmoral Area – Well Intervention

Premier Oil UK will commence well intervention work and GVIs in June 2018 on the Brenda, Nicol (Blocks 15/25b and 15/25a) and Balmoral Oil and Gas Fields in the Central North Sea (Block 16/21). The work involves the intervention of a number of wells at the following locations:



Vessel: Seawell Schedule: 10th July – 9th September 2018

Key coordinates:

Well Number	Location
16/21b-4A	58°12.666'N 001°10.567'E
16/21a-16	58°13.711'N 001°08.965'E
16/21a-17z	58°10.355'N 001°02.445'E
16/21a-26z	58°10.732'N 001°01.144'E
Nicol N1 Well	58°11.735'N 000°58.388'E
Brenda 4z Well	58°11.735'N 000°58.388'E
Brenda 15/25b-10 Well	58°12.310'N 000°56.638'E

For further information: Mike Swankie, Premier Oil, Tel +44 (0) 1224 618965, mswankie@premier-oil.com

Lancaster Field – Development

The Lancaster Turret Mooring System (TMS) is now installed with the TMS buoy sitting 20m below the sea surface. The buoy is moored in place by 12 wire and chain mooring lines that extend up to 1290m from the TMS buoy to driven piles. The mooring system will remain in this configuration with the buoy at -20m until the FPSO arrives.



Pipeline installation works are being undertaken by the Normand Vision and the Deep Explorer in the Lancaster field. The work will extend from the manifold location to the TMS Buoy (future Aoka Mizu FPSO location). The earliest start date for pipeline installation operations to commence is 22nd July and the operations are expected to last approximately two months.

The manifold will be installed near the Lancaster 205/21a-6 and 205/21a-7z wells, 2 x flexible flowlines c/w risers and 1 x static dynamic umbilical will be laid from the manifold location to the TMS buoy. These lines will be connected to the submerged TMS buoy in preparation for the FPSO arrival. Well Jumpers will be installed and connected between the manifold and the already installed xmas trees. Rockdump protection of the flowlines will commenced on completion of the installation works. The rock dumping activities are estimated to be carried out between 25th September and 31st October 2018.

The installation operations will be undertaken from the following vessels:
Normand Vision, Deep Explorer, Rockdumping vessel TBC

The co-ordinates for the proposed operations are listed below:

	Coordinates
LDC5 Manifold Centre	60° 11.947'N 03° 51.859'W
Aoka Mizu FPSO Turret Centre	60° 10.794'N 03° 52.196'W

For further information: Jo Valentine, Hurricane Energy, T +44 1224 548580 email: Jo.Valentine@hurricaneenergy.com

GP11, South Maclure (Ballinalloch) – Inspection Activities

Bibby Polaris (call sign MYKR6) is engaged in various inspection activities with limited manoeuvrability, between July 28th and August 30th at the above mentioned fields in Quad 9.

Please exercise caution in these areas.

For further information: David Colliard, Total E&P UK Limited, Tel: 01224 298172 email: david.colliard@total.com

Seabed Activity

First Published: 26 July 2018 | Latest Update: 26 July 2018

Brent Charlie Field – Vessel Activity

Please be advised of the following upcoming Vessel activity being undertaken in the Brent Charlie Field.



- Rockdumper TBC – Carrying out Crossing installation – Infield 24/07/18 – 26/07/18
- Seven Navica – Pipelay, FCG and OOS Survey – 14/08/18 – 19/08/18
- Seven Arctic – Brent C GE SSV & FLAGS PLEM Installation – 28/08/18 – 31/08/18
- Activity: Carrying out tie-in works, mattressing and commissioning

The Vessels will be working in the following areas:

Location	Coordinates
Brent 'D' Platform Riser (Fitted with Plastic Cap)	61°07.910'N 01°44.066'E
Brent Charlie Tie-In Spool cut (Fitted with Environmental Bung)	61°05.737'N 01°43.205'E
Adjacent to Brent Charlie Platform	61°05.737'N 01°43.205'E
Brent 'C' Gas Export SSV Structure	61°05.707'N 01°43.636'E
NL-WL- PLEM	61°02.046'N 01°41.970'E
Penguins Production SSV Structure	61°05.707'N 01°43.363'E

For further information: Victoria Munro, Shell UK Limited, Tel: +44 1224 887804 email: y.munro@shell.com

Seabed Activity

First Published: 12 July 2018 | Latest Update: 12 July 2018

Azinor Plantain / Agar – Drilling Operations

Azinor Catalyst is planning a drilling operation at the Plantain/Agar location in UK Licence Block 9/14, located in the Northern North Sea. Please see pre-laid Anchor positions in the Anchor List Section.



Drilling Rig/Ship	Installation / Well No	Position	Start / Finish	Duration
Transocean Leader Esvagt Champion	Plantain / Agar	59°37.464'N 001°44.609'E	19/08/2018	28 - 35 Days

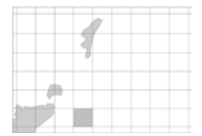
For further information: John Campbell, Anatec Limited, Tel: +44 1224 253700 email: aberdeen@anatec.com

Seabed Activity

First Published: 28 June 2018 | Latest Update: 28 June 2018

Captain Field – Drilling Operations

Chevron North Sea Ltd is planning to drill at the Captain B34 well location in UK Licence Block 13/22, located in the outer Moray Firth.



Drilling Rig/Ship	Installation / Well No	Position	Start / Finish	Duration
West Phoenix 3ETB9 Skandi Foula	Captain B34	58°18.070'N 01°42.380'W	21/06/2018	90 Days

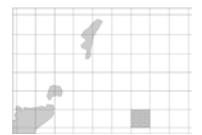
For further information: Pat Dasgupta, Chevron North Sea Limited, Tel: +44(0)1224 345425 email: Pat.Dasgupta@chevron.com

Seabed Activity

First Published: 15 May 2018 | Latest Update: 07 August 2018

Utgard Field – Development Activity

Equinor and its licence partners will soon start development of the Utgard offshore gas condensate field, which is a trans-boundary field located in the central North Sea in Block 15/8 of the NCS and Block 16/18a of the UKCS. The development will be by means of two or possibly three wells drilled through a 4-slot template located on the NCS approximately 450 metres to the east of the median line.



The template is of an over-trawlable design to minimise any potential harm to fishing activities. In addition, drilling activities are scheduled at this location for the period between 1st August and 15th November 2018. Further details will be provided once available. Installation of the template is scheduled to commence around the 28th May and continue through to 15th June 2018.

The operations will be undertaken from the following vessels: Seven Arctic CSV

The co-ordinates for the proposed operations are listed below:

Well/Template	Coordinates
	58°21.967'N 001°32.933'E

For further information: Euan Simpson, Equinor (Production) UK Limited, tel: 07557 161705, email: eusi@equinor.com

Pelican Field Programme – Well Abandonment

TAQA Bratani is conducting well abandonment and drilling operations on a number of wells within the Pelican field.

The planned operations will consist of abandoning the reservoirs and removing the existing Xmas Trees of six wells within the subsea field.

Operations will be conducted by the Paragon MSS1 semi-submersible drilling rig, with operations expected to commence on July 26th and last for six months. The rig will be anchored in a central location (61°02'00.705"N 1°07'45.057"E) and then skidded between wells as required. The Paragon MSS1 is located in the Pelican field UKCS Block 211/26a.

The co-ordinates for the proposed operations are listed below:

Well Number	Location	Start / Finish	Description of Work
PU-p14	61°02.022'N 001°07.700'E	01/03/18 – 28/06/18	Abandon wellbore and drill sidetrack well. Run Xmas tree
PU-p16S1	61°02.046'N 001°07.724'E	28/06/18 – 24/08/18	Reservoir Abandonment. Remove existing Xmas tree
PU-P15 & PU-P15S1	61°02.037'N 001°07.719'E	24/08/18 – 10/10/18	Reservoir Abandonment. Remove existing Xmas tree
PU-P11	61°02.026'N 001°07.766'E	10/10/18 – 09/11/18	Reservoir Abandonment. Remove existing Xmas tree
PU-P21	61°01.997'N 001°07.729'E	09/11/18 – 08/12/18	Reservoir Abandonment. Remove existing Xmas tree
PU-P10BS2	61°01.984'N 001°07.740'E	08/12/18 – 28/01/19	Reservoir Abandonment. Remove existing Xmas tree
PU-P12	61°02.017'N 001°07.760'E	28/01/19 – 26/02/19	Reservoir Abandonment. Remove existing Xmas tree



For further information: Peter Mayo, TAQA Bratani, Tel: 01224 275556, email: Peter.Mayo@taqaglobal.com

Leadon Development – Decommissioning

Maersk Oil UK Ltd have commenced decommissioning activities associated with the removal of the Leadon subsea infrastructure in Block 9/14 of the UK Continental Shelf.

The 2018 Decommissioning campaign at Leadon commences in June, with activities ongoing through to August. The Maersk Inventor CSV will arrive in Field in mid-June to complete the below workscope:

- 6x Bundle Cuts – (3x cuts on Bundle Section A – 46", 3x cuts on Bundle Section B – 51");
- Preparation of 3x Leadon Towhead Structures for recovery;
- Recovery of 2x Leadon Towhead Structures:
 - Mid Line Structure;
 - South Towhead (B).
- Recovery of 4x Subsea Xmas Trees @ Leadon North;
- Debris Clearance @ Leadon North, South and Mid Line locations.

The remaining Leadon North Towhead and bundle sections will be decommissioned during future offshore campaigns in accordance with the approved Decommissioning Programme.

A summary of the upcoming activities is as follows:

Location	Block	Coordinates	Activity	Schedule
Leadon North Towhead	9/14a	59°34.708'N 01°39.323'E	1x Bundle Cut	June - Sept 2018
Leadon South Towhead	9/14a	59°32.562'N 01°39.495'E	1x Bundle Cut	June - Sept 2018
Leadon Midline Structure	9/14a	59°33.708'N 01°39.403'E	4x Bundle Cuts	June - Sept 2018
Leadon Midline Structure	9/14a	59°33.708'N 01°39.403'E	Towhead Recovery	June - Sept 2018
Leadon South Towhead	9/14a	59°32.562'N 01°39.495'E	Towhead Recovery	June - Sept 2018
Leadon North Towhead	9/14a	59°34.708'N 01°39.323'E	4x Xmas Tree Recovery	June - Sept 2018



For further information: Steph Kiltie, PDI Ltd, Tel +44(0)1224 562193 email steph.kiltie@pdi-ltd.com

Notice to Fishermen

First Published: 09 August 2018 | Latest Update: 09 August 2018

Fishing Hazard – Pelican Field Xmas Tree 211/26a-P8z



Please be advised that TAQA have installed a Xmas Tree at well 211/26a-P8z in the Pelican subsea field.

Position: 61°01.991'N 001°07.596'E



For further information: Natasha Dolecki, Taqa Bratani Limited, Tel: +44(0)1224 737633 email: Natasha.Dolecki@taqaglobal.com

Notice to Fishermen

First Published: 12 July 2018 | Latest Update: 07 August 2018

Fishing Hazard – Freespans Lomond to CATS Riser Platform Pipeline



In preparation for hot tap and tie-in works on the Lomond Platform to CATS Riser Platform 8-inch pipeline (PL781), the pipeline has been excavated and exposed at the following locations:

- 57° 17.537'N, 2° 10.619'E (1 freespan 5m long x 0.5m high)
- 57° 17.755'N, 2° 10.580'E (1 freespan 5m long x 0.5m high)
- 57° 28.484'N, 2° 04.158'E (1 freespan 5m long x 0.5m high)
- 57° 28.687'N, 2° 03.972' E (1 freespan 5m long x 0.5m high)
- 57° 30.146'N, 2° 2.680'E (3 freespans, each 5m long x 0.5m high)

Immediately adjacent to the Lomond platform (within the 500m zone) at 57° 17.215'N, 02° 10.672'E there are 3 further freespans, each 5m long x 0.5m high.

For further information: Emily Eadington, Chrysaor, tel. +44 (0) 1224 086393, email Emily.Eadington@chrysaor.com



Notice to Fishermen

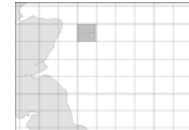
First Published: 31 May 2018 | Latest Update: 31 May 2018

Fishing Hazard – Sunken Buoy with heavy Weight and Anchor



Sunken buoy with heavy weight and anchor – this has been snagged and dropped to the seabed (with the skipper having to cut half his net away)

Position: 57°00.668'N 000°05.671'W



For further information: Raymond Hall, SFF, Tel: 01224 646944 email: R.Hall@sff.co.uk

Seabed Activity

First Published: 26 July 2018 | Latest Update: 26 July 2018

Golden Eagle Field – Well tie in works

Nexen Petroleum intends to undertake pipeline works in the Golden Eagle Field area, commencing 6th August 2018. The works comprise the installation of a 6" production tie-in spool, 4" gas lift spool and controls jumper, each ~ 50m in length, between the Southern Drill Centre Manifold (SDCM) and the new Production Well SP2.

Vessel activity in the area is as follows:

Operations	Field Locations	Position	Vessel	Mobilisation In Golden Eagle Field
Well Tie-In, pipeline spools	Golden Eagle Southern Drill Centre Manifold (SDCM)	57°55.270'N 000°54.280'W	Seven Kestrel	05/08/2018 06/08/2018 – 31/08/2018

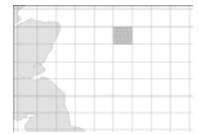
For further information: Colin Strachan, Nexen Petroleum UK Ltd, +44(0)7843 258613



Nexen Glengorm – Drilling Operations

Nexen Petroleum UK Limited is planning to drill at the 22/21c-M (Glengorm) location in the UK Central North Sea.

Drilling Rig/Ship	Installation / Well No	Position	Start / Finish	Duration
Paragon Prospector 5 ERRV: Esvagt Capri	Glengorm 22/21c-M	57°10.644'N 001°07.066'E	20/08/2018	146 Days



For further information: John Campbell, Anatec Limited, Tel: +44 1224 253700 email: aberdeen@anatec.com

Lomond – Diving and Pipeline Activities

The following vessels will be carrying out diving and construction activities on Chrysaor's 8-inch condensate pipeline which runs from the Lomond Platform to the CATS Riser Platform in UKCS Blocks 23/11a, 26/16b, 23/16d and 23/21a :



- Seven Navica (call sign MZHR7) is currently in the field carrying out 8-inch pipeline installation activities up to approximately 10th August
- Grand Canyon III (call sign LACJ8) will be carrying out pipeline trenching activities between 10th and 24th August approximately
- Seven Falcon (call sign 2EEN9) will be carrying out hot tapping and pipeline flushing activities between 12th and 26th August approximately
- Simon Stevin (call sign LXUB) will be carrying out rock placement activities between 17th and 31st August approximately
- Seven Eagle (call sign ELUB4) will be carrying out spoolpiece installation and tie-in activities between 26th August and 16th September approximately.

The locations where the diving and pipelay activity will take place are between: 57°17.224'N 2°10.803'E and 57°30.146'N 2° 02.680'E

For further information: Emily Eadington, Chrysaor, tel. +44 (0) 1224 086393, email Emily.Eadington@chrysaor.com

Nelson Field – Flexibles, Umbilicals & Structure Installations**Global Symphony (Global Offshore) – Infield 18/07/18 – Depart Field 25/07/18**

- Installation and burial of 6km long power cable between Nelson Platform and Nelson South manifold.

**Bibby Polaris (Bibby Offshore) – Infield 31/08/18 – Depart Field 09/09/18**

- Installation of UTA protection structures
- Relocation of UTAs from lay operation
- Recovery of redundant control jumpers
- Installation of new control jumpers
- Commissioning support

The Vessels will be working the following locations within the Nelson Field:

Location	Coordinates
Nelson Field - Platform	57°39.734'N 001°08.640'E
Nelson South Satellite - Manifold	57°36.961'N 001°11.405'E
Tie-in Skid	57°39.668'N 001°08.819'E

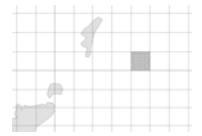
For further information: Victoria Munro, Shell UK Limited, Tel: +44 1224 887804 email: v.munro@shell.com

Seabed Activity

First Published: 12 July 2018 | Latest Update: 12 July 2018

Azinor Plantain / Agar – Drilling Operations

Azinor Catalyst is planning a drilling operation at the Plantain/Agar location in UK Licence Block 9/14, located in the Northern North Sea. Please see pre-laid Anchor positions in the Anchor List Section.



Drilling Rig/Ship	Installation / Well No	Position	Start / Finish	Duration
Transocean Leader Esvagt Champion	Plantain / Agar	59°37.464'N 001°44.609'E	19/08/2018	28 - 35 Days

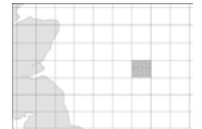
For further information: John Campbell, Anatec Limited, Tel: +44 1224 253700 email: aberdeen@anatec.com

Seabed Activity

First Published: 31 May 2018 | Latest Update: 31 May 2018

Janice, James and Affleck Fields – Decommissioning

Maersk Oil UK Ltd have commenced decommissioning activities associated with the removal of the Janice 'A' FPU in Block 30/17a of the UK Continental Shelf.



The Janice FPU and its associated moorings and anchors were towed/recovered in Q3 2016. With flexible products, structures and mattresses recovered throughout 2017 by the Maersk Master and Maersk Achiever AHTS.

2018 Decommissioning works at Janice, James and Affleck will take place in July and August, with the Maersk Inventor CSV arriving in field to complete the below workscope:

- Pile Cutting at Janice Oil Export SSV;
- Recovery of Janice Oil Export SSV;
- Cutting & Recovery of ~120m of Janice Oil Export Pipeline/Spools;
- Recovery of 4x Mid-Water Arch Clumpweight Ballast Blocks;
- Recovery of 2x Mid-Water Arch Clumpweight Base Frames;
- Recovery of 1x Water Injection Manifold;
- Debris Clearance @ Janice, James & Affleck (mattress recovery etc.).

The remaining subsea infrastructure will be decommissioned during future offshore campaigns in accordance with the approved Decommissioning Programme.

Facility / Installation	Block	Coordinates	Activity	Schedule
Janice 'A' FPU	30/17a	56°23.876'N 02°15.004'E	Pile Cutting & Oil Export SSV Recovery	June - Sept 2018
Janice Drill Centre (500m zone)	30/17a	56°23.706'N 02°15.316'E	Janice WI Manifold Recovery	June - Sept 2018
Janice 'A' FPU Site	30/17a	56°23.876'N 02°15.004'E	Debris Clearance	June - Sept 2018
Janice Drill Centre (500m zone)	30/17a	56°23.706'N 02°15.316'E	Debris Clearance	June - Sept 2018
Janice Drill Centre (500m zone)	30/17a	56°23.706'N 02°15.316'E	MWA Clumpweight Recovery	June - Sept 2018
James Drill Centre (500m Zone)	30/17a	56°21.485'N 02°18.835'E	Debris Clearance	June - Sept 2018
Affleck Drill Centre (500m Zone)	30/19a	56°26.552'N 02°42.077'E	Debris Clearance	June - Sept 2018

A summary of the upcoming activities is as follows:

For further information: Steph Kiltie, PDI Ltd, Tel +44(0)1224 562193 email steph.kiltie@pdi-ltd.com

Seabed Activity

First Published: 12 July 2018 | Latest Update: 12 July 2018

Gannet E Field – Vessel Activity

Please be advised of the following upcoming Vessel activity being undertaken in the Gannet Field.



Vessel Name: **Seven Pelican** Date: Infield on the 16th Aug – 23rd Aug Activity: Carrying out tie-in works, mattressing and commissioning

The Vessels will be working in the following areas:

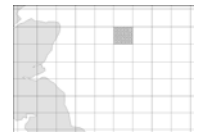
Location	Coordinates
Gannet C4 GC4-04 Well	57°08.311'N 00°57.211'E
Tie-In Point of PL2219 Adjacent to Gannet C1 GC1-04 Well	57°10.123'N 00°56.717'E
Adjacent to Bundle 4 Towhead (C4 end)	57°08.365'N 00°57.303'E

For further information: Victoria Munro, Shell UK Limited, Tel: +44 1224 887804 email: v.munro@shell.com

Montrose BLP Project – Development Operations

Offshore campaigns upcoming;

- DSV Seven Eagle – ETA in field 8th June. Support subsea construction activities between Shaw production and Shaw Water Injection Drill centres and control system commissioning testing. (Duration 7 days).
- Tideway Flintstone – ETA in field 18th June. Undertake rock place of WI control umbilical between Shaw production and Shaw Water Injection Drill centres. (Duration 2 days).
- Guard vessel is currently on location and will provide guard duty support until the rock dump scope is completed.



Note. HSE recognised 500m Safety Zones are now in force at the following:

- Cayley drill centre 57°25.167'N 01°13.804'E
- Cayley/Montrose intermediate towhead 57°26.160' N 01°18.420' E
- Shaw production drill centre 57°17.813'N 01°21.755'E
- Shaw WI drill centre 57°17.369'N 01°22.299'E

Key Coordinates	
57°27.068'N 01°23.214'E	Montrose BLP (500m Safety Zone)
57°25.167'N 01°13.804'E	Cayley Drill Centre (500m Safety Zone)
57°25.924'N 01°17.332'E	44" Langed Crossing – located between Montrose BLP and Cayley Drill Centre– Fishing Hazard stay clear (concrete mattresses)
57°26.671'N 01°20.804'E	24" GAEL Crossing - located between Montrose BLP and Cayley Drill Centre– Fishing Hazard stay clear (concrete mattresses)
57°17.813'N 01°21.755'E	Shaw production Drill Centre
57°17.369'N 01°22.299'E	Shaw Water Injection Drill Centre
57°25.757'N 01°22.760'E	24" GAEL crossings- located between Montrose BLP and Shaw Production Drill Centre – Fishing Hazard stay clear (concrete mattresses)
57°27.054'N 01°22.987'E	14" Forties Crossings- located between Montrose BLP and Shaw Production Drill Centre (inside Montrose 500m zone)
57°22.00'N 01°20.25'E	CATS T2

For further information: James Harper, Repsol Sinopec Tel: 01224352855 email: James.Harper@repsolsinopecuk.com James Smith Tel: 01224353458 email: James.Smith@repsolsinopecuk.com

Seabed Activity

First Published: 14 June 2018 | Latest Update: 18 June 2018

Gannet E Field – Flexibles, Umbilicals & Structure Installations

Rock dumper – TBC (Technip 3rd Party) Infield 11/08/18 – Depart Field on 21/08/18

Rock dump of Gannet E flow lines & static umbilical – SWC



Deep Explorer (Technip) Gannet E scopes – Infield 07/07/18 – Depart Field 12/08/18

- Gannet E tie ins at Valve Skid – SWC close proximity
- Gannet E static umbilical tie-ins to umbilical riser base - SWC
- Bittern WI replacement flowline tie-ins at DCA & DCB – Open Water
- Gannet E flowlines and well tie-ins – Open Water

The Vessels will be working in the listed below locations.

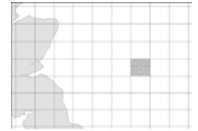
Location	Coordinates
Gannet 'E' Tie In Manifold	57°05.485'N 000°50.944'E
Valve Skid	57°05.542'N 000°51.038'E
Well GE P-01	57°05.496'N 000°50.924'E
Gannet 'E' Tie-In Manifold	57°05.473'N 000°50.914'E
Well GE P-02	57°05.485'N 000°50.918'E
Gannet 'E' Tie-In Manifold	57°05.473'N 000°50.914'E
Well GE P-03	57°05.472'N 000°50.967'E
Gannet 'E' Tie-In Manifold	57°05.473'N 000°50.914'E
Riser Base SY9515G	57°05.040'N 000°53.401'E
Gannet 'E' Towhead/Manifold	57°05.485'N 000°50.944'E

Location	Coordinates
Bittern Drill Centre 'A' Production Manifold	56°54.141'N 001°02.141'E
Triton FPSO Topside Pig Trap Isolation	57°04.998'N 000°53.452'E
Bittern Well WA	56°54.116'N 001°02.131'E
Adjacent to Bittern Drill Centre 'B' Production Manifold	56°55.009'N 001°01.450'E

For further information: Victoria Munro, Shell UK Limited, Tel: +44 1224 887804 email: v.munro@shell.com

North Sea Central & Southern – Wave Glider Buoy

A Wave Glider for oceanographic research will be operating in UK waters in the Central and Southern North Sea between the UK coast and the UK/Netherlands border.



The instrument (ca. 3m long x 0.6m wide) travels slowly on the surface under wave power. It is fitted with an orange flag, all-round white light and Radar Target Enhancer.

If discovered before 15th October 2018, please leave in the water.

Approx North extent 56°40.000'N Approx South Extent 52°25.000'N mainly Centred around : 56°12.000'N 002°00.000'E

For further information: Cefas Lowestoft Lab, Tel: +44(0)1502 562244

Notice to Fishermen

First Published: 15 May 2018 | Latest Update: 15 May 2018

Fishing Hazard – Pipeline Span on Hewett to Bacton (PL21)



Significant Pipeline Span on PL21 from Hewett to Bacton.

Size: Approx 37 metres long and 1 metre high.

Position: 53°01.482'N 001°43.673'E

*For further information: John Entwistle Tel: 020 7344 6342 John.Entwistle@eni.com*

Notice to Fishermen

First Published: 11 January 2018 | Latest Update: 19 April 2018

Fishing Hazard – Pipeline Span Hewett Field PL1173



Please note that the stabilisation undertaken in January involved the placement of concrete mattresses which reduced the span lengths to below 10m length.

53°06.662'N 001°44.180'E to 53°06.654'N 001°44.198'E

53°06.668'N 001°44.165'E to 53°06.647'N 001°44.213'E

*For further information: John Entwistle Tel: 020 7344 6342 John.Entwistle@eni.com*

Seabed Activity

First Published: 09 August 2018 | Latest Update: 09 August 2018

Thames Area – Well Abandonment

Following the completion of the below well plug and abandonment campaign, please be aware that Petrofac were unable to remove a section of 30" conductor at the Orwell Exploration well location due to technical difficulties and as such this will be recovered as part of Tullow Oil SK Ltd's (Tullow) Phase 4 Decommissioning Programme due to commence in 2019.

The top hole conductor of the well will remain in situ until this time, protruding approximately 10 feet above seabed (no change from previous status prior to Petrofac operations). The area is subject to a 500m exclusion zone which encompasses the well in question.



Well Number	Coordinates
50/26a-D1	53°08.464'N 03°02.576'E
50/26a-D2	53°08.466'N 03°02.574'E
50/26a-D3	53°08.462'N 03°02.577'E
50/26a-2	53°08.420'N 03°02.481'E

For further information: Mark Ryan, Petrofac, Tel: +44(0)1224 247 000 email: mark.ryan@petrofac.com

Seabed Activity

First Published: 09 August 2018 | Latest Update: 09 August 2018

EDT Jane ST-1 – Subsea Decommissioning

Spirit Energy will be mobilising the EDT Jane ROVSV on or shortly after the 25th August from Great Yarmouth. The work is expected to have been completed before 15th September.

The EDT Jane will transit to and undertake work at the Markham field. The work will take place at two locations; the ST-1 platform 53°50.527'N 02°52.059'E and the J6A platform 53°50.586'N 02°52.158'E The scope of work is the subsea decommissioning of the ST-1 facilities and includes the following:



- Removal and recovery of mattresses covering the spools at ST-1 and at J6A
- Cutting and removal of sections of pipelines at ST-1 and at J6A
- Removal of sand bags and other debris

No diving is associated with this scope.

The platform will remain in place with the existing navigational aids until a future platform removal campaign, which we will notify you about in advance of the operation.

For further information: Susan MacKenzie, Spirit Energy, Tel: +44 (0)1224 415 583 email: susan.mackenzie@spirit-energy.com

Seabed Activity

First Published: 09 August 2018 | Latest Update: 09 August 2018

Thurne Field – Well Abandonment

Please be aware that Petrofac Facilities Management Limited (PFML) will be commencing well abandonment operations in the Thames Area of the Southern North Sea on 15nd August 2018 for an estimated duration of 30 days at the below subsea well location, utilising the ENSCO 72 mobile offshore drilling unit..



Field	Well	Position	Start / Finish	Duration
Thurne	49/28a	53°06.009'N 002°28.647'E	15/08/2018	30 Days

For further information: Mark Ryan, Petrofac, Tel: +44(0)1224 247 000 email: mark.ryan@petrofac.com

Seabed Activity

First Published: 19 April 2018 | Latest Update: 19 April 2018

Chiswick Field – Drilling Operations

The Noble Hans Deul rig will be mobilising from Nigg to the following Chiswick field location on or around the 20th April 2018. The rig will be undertaking well workover and drilling activities and will be at that location for approximately 260 days.



Drilling Rig/Ship	Installation / Well No	Position	Start / Finish	Duration
Noble Hans Deul	Chiswick Field	53°56.390'N 002°44.828'E	20/04/2018	260 Days

For further information: Lyndsay Arthur, Spirit Energy, Tel: +44(0) 1224 415 150 email: lyndsay.arthur@spirit-energy.com

Seabed Activity

First Published: 08 March 2018 | Latest Update: 08 March 2018

Clipper– Pipeline Construction Works

Pipeline construction activities shall commence between the Clipper South and Clipper platforms in the Southern North Sea from 01 April 2018 and continue through to October 2018.

There will be a range of vessels involved in pipelay, survey, rockdump and diving support related works, including, but not limited to the following: Deep Energy, Normand Pioneer, EDT Hercules, Nordnes



Clipper South Platform	53°24.224'N 001°46.968'E
Clipper Platform	53°27.480'N 001°43.922'E

For further information: Phillip Jones, INEOS Oil and Gas UK, Tel: +44 (0) 203 935 5278 email: phillip.jones@ineos.com

Notice to Fishermen

First Published: 23 August 2018 | Latest Update: 23 August 2018

Fishing Hazard – Warrenpoint Harbour



Mariners should be advised the a multibeam survey carried out in Warrenpoint Harbour and approach channel has located a ship's anchor of approximately 1.3 m long with a rope protruding from it. The anchor as shown above is at a depth of 3.5m and located on the seabed in the approach channel.



The object was found on the slope of the main channel in position: 54°04.899'N 006°13.472'W

For further information: Capt. Catriona Dowling, Harbour Master, Tel: +44 (0)28 4177 3381 email: CDowling@warrenpointharbour.co.uk

Seabed Activity

First Published: 09 August 2018 | Latest Update: 09 August 2018

Pipeline Spans – Liverpool Bay



In June/July 2018, we have carried out Acoustic Survey (MBES/SSS) and Depth of Burial (SBI) for all of the Liverpool Bay Asset Pipelines.



There were few new Free Span Findings related to two pipelines PL1034 (14" Oil Pipeline) and PL1035 (16" Gas Pipeline).

Position	Length (m)	Height (m)
53°22.225'N 03°22.162'W	4.3	1.3
53°22.228'N 03°22.166'W	6.4	1.0
53°22.230'N 03°22.171'W	8.8	1.0

For further information: Rajesh Kumar, ENI UK – Liverpool Bay Asset, Tel: +44 (0)1352 842200 email: rajesh.kumar@external.eni.com

Seabed Activity

First Published: 26 July 2018 | Latest Update: 26 July 2018

Millom & Dalton Gas Field – Operations



Millom East subsea infrastructure including to undertake diving operations - 24 July until 20 August.

During this time it will relocate to the Dalton subsea infrastructure for approx. 3 days. The Bibby Topaz DSV (call sign 3 EHY 8) will transit from Great Yarmouth to the eastern Irish Sea 21-24 July 2018



Millom East	54°00.589'N 03°46.347'W
Dalton	53°54.211'N 03°43.369'W

For further information: John Watson, Spirit Energy, Tel +44 1224 415353 email: john.watson@spirit-energy.com

Deployment of Buoys

First Published: 28 June 2018 | Latest Update: 28 June 2018

Holy Island – Scientific Mooring Buoys

Bangor University has deployed seven scientific moorings off Holy Island at the following positions. They are fully submersed with no surface markers. All have a minimum clearance exceeding 30m.



Due to be recovered by 24th August.

Coordinates
53°18.336'N 04°42.619'W
53°18.037'N 04°42.629'W
53°18.031'N 04°43.096'W
53°17.513'N 04°43.503'W
53°17.761'N 04°42.858'W
53°17.274'N 04°43.036'W
53°17.223'N 04°43.506'W

For further information: Gemma Veneruso, Bangor University, Tel: 01248 382840 email: g.veneruso@bangor.ac.uk

Area 1 Rig List

Latest Update: 20 August 2018

MOVEMENT	RIG	POSITION	MOVEMENT	RIG	POSITION
	Rowan Viking	58°00.20'N 00°22.70'W		Deepsea Aberdeen	60°20.00'N 04°01.40'W
	Rowan Gorilla 7	58°01.70'N 01°42.90'E		Safe Caledonia	60°44.10'N 02°29.40'W
	Ocean Guardian	58°18.10'N 01°42.40'W	New	Songa Endurance	60°48.50'N 03°33.40'E
	Ocean Valiant	58°22.50'N 00°56.40'E		West Hercules	60°49.10'N 04°09.20'W
	Maersk Integrator	58°34.30'N 01°41.80'E		Songa Equinox	60°49.80'N 03°34.30'E
	COSL Innovator	58°48.50'N 02°16.10'E		Stena Don	60°55.90'N 02°14.10'W
New	Deepsea Atlantic	58°52.20'N 02°31.10'E		COSL Promoter	60°56.60'N 03°34.50'E
	Maersk Intrepid	59°02.20'N 02°13.50'E		Paragon MSS1	61°02.00'N 01°07.80'E
	Ocean Patriot	59°26.90'N 01°37.20'E	New	Deepsea Bergen	61°08.90'N 03°17.00'E
	Deepsea Stavanger	59°32.70'N 01°59.20'E		Transocean 712	61°17.60'N 01°28.30'E
	Safe Boreas	59°35.20'N 01°03.20'E	New	Scarabeo 8	64°35.80'N 06°51.30'E
	Noble Lloyd Noble	59°35.40'N 01°03.40'E			

Area 2 Rig List

Latest Update: 20 August 2018

MOVEMENT	RIG	POSITION	MOVEMENT	RIG	POSITION
	Maersk Resilient	55°32.20'N 05°01.90'E		Rowan Gorilla V	56°58.02'N 01°52.19'E
	Maersk Guardian	55°42.90'N 04°44.90'E		Maersk Interceptor	57°04.30'N 03°03.80'E
	Noble Sam Turner	55°48.20'N 04°33.60'E		West Phoenix	57°10.00'N 00°49.50'E
New	Maersk Resolve	55°52.80'N 04°13.90'E		Maersk Highlander	57°11.70'N 01°54.80'E
	Transocean Leader	56°11.90'N 02°45.90'E		Ensco 101	57°24.30'N 01°35.90'E
	Ensco 120	56°43.50'N 02°12.50'E		COSL Pioneer	57°50.90'N 00°38.60'W
	Ensco 100	56°44.60'N 00°40.70'E		Paul B Loyd Jnr	57°58.20'N 00°53.70'E
New	Blackford Dolphin	56°50.10'N 01°42.90'E			

Area 3 Rig List

Latest Update: 20 August 2018

MOVEMENT	RIG	POSITION	MOVEMENT	RIG	POSITION
New	Maersk Resolute	52°15.80'N 03°51.20'E	New	Paragon B391	53°30.50'N 02°10.20'E
	Ensco 72	52°54.00'N 02°45.20'E		Seafox 1	53°42.20'N 01°09.00'E
	Seafox 2	53°00.31'N 02°53.77'E		Noble Hans Deul	53°56.40'N 02°44.80'E
	Seafox 4	53°04.60'N 02°11.10'E		Paragon C20051	54°06.80'N 00°27.60'E
	590021	53°14.00'N 03°14.50'E		Ensco 92	54°12.20'N 02°27.10'E
	Ensco 122	53°14.40'N 04°05.00'E			
	Seajacks Leviathan	53°14.80'N 02°01.40'E			

Rig anchors may extend over one mile from rig positions; anchor buoys are not always deployed. There may be additional structures called anchor pennants, deployed up to 200 metres from each anchor. In the interests of safety and to avoid fishing gear damage, fishing close to, or within anchor patterns, should be avoided. Fishermen may contact the installation or the ERRV (standby vessel) for positions of the anchors.

Area 1 Anchor List

Latest Update: 23 August 2018

Ocean Valiant – Pre-Lay at Ballindalloch 9/19

Anchor No.	Position	Anchor No.	Position	Anchor No.	Position
Rig	59°20.414'N 001°37.393'E	5	59°20.590'N 001°39.370'E	10	59°21.490'N 001°37.160'E
1	59°20.260'N 001°35.270'E	6	59°20.310'N 001°39.420'E	11	59°20.000'N 001°39.220'E
2	59°20.550'N 001°35.270'E	7	59°19.380'N 001°37.180'E	12	59°19.410'N 001°37.890'E
3	59°21.510'N 001°37.700'E	8	59°19.480'N 001°36.530'E		
4	59°21.430'N 001°38.170'E	9	59°20.780'N 001°35.390'E		

Transocean Leader – Plantain /Agar

Anchor No.	Position	Anchor No.	Position	Anchor No.	Position
Rig	59°37.464'N 001°44.609'E	3	59°37.805'N 001°46.108'E	6	59°36.642'N 001°43.959'E
1	59°38.065'N 001°44.159'E	4	59°37.163'N 001°46.090'E	7	59°37.118'N 001°43.082'E
2	59°38.057'N 001°45.226'E	5	59°36.689'N 001°45.224'E	8	59°37.798'N 001°43.155'E

Ocean Guardian – At Captain B

Anchor No.	Position	Anchor No.	Position	Anchor No.	Position
Rig	58°18.024'N 001°42.462'E	3	58°18.203'N 001°44.135'E	6	58°18.668'N 001°41.449'E
1	58°17.039'N 001°42.808'E	4	58°18.680'N 001°43.551'E	7	58°17.922'N 001°40.699'E
2	58°17.404'N 001°43.957'E	5	58°18.852'N 001°42.681'E	8	58°17.331'N 001°41.315'E

Pre-Laid Anchors – Clair Ridge Field

BP wish to advise that the Safe Caledonia Floatel has arrived alongside Clair Ridge Platform. The table below confirms the anchor positions within the field which were sent through on 10/05/18 – all the surface buoys have been recovered and the anchors connected to the rig.

Anchor No.	Anchor Position	Comments
Rig	60°44.171'N 02°29.932'W	
1	60°43.623'N 02°32.863'W	N/A
2	60°44.121'N 02°33.082'W	N/A
3	60°45.445'N 02°31.727'W	N/A
4	60°45.456'N 02°30.689'W	N/A
5	60°44.796'N 02°27.801'W	N/A
5A	60°44.851'N 02°27.586'W	Piggyback anchor
6	60°44.597'N 02°27.658'W	N/A
7	60°43.076'N 02°29.170'W	N/A
8	60°43.000'N 02°29.749'W	N/A
9	60°43.320'N 02°32.032'W	N/A
9A	60°43.237'N 02°32.206'W	Piggyback anchor
9B	60°43.169'N 02°32.356'W	Piggyback anchor
10	60°45.468'N 02°29.800'W	N/A

Schiehallion West Drill Centre– Anchor Laid Down

The Deepsea Aberdeen rig has moved away from Schiehallion Central to St Magnus Bay to undertake planned maintenance. The anchors in the field are still installed and have been laid down to the seabed.

At the moment the GeoCoral survey vessel is planning to run survey lines over the Schiehallion Central area – this vessel has an FLO onboard.

Anchor No.	Position	Lay-down Pennant	Chain End
Rig			
1	60°19.267'N 04°09.177'W	60°19.335'N 04°07.655'W	60°19.568'N 04°07.782'W
4	60°21.127'N 04°04.926'W	60°21.019'N 04°05.250'W	60°20.891'N 04°05.185'W
5	60°20.420'N 04°03.692'W	60°20.184'N 04°04.805'W	60°20.302'N 04°04.241'W
8	60°18.407'N 04°07.402'W	60°19.156'N 04°06.778'W	60°19.108'N 04°06.844'W

Schiehallion Central – Anchor Pre-Laid

The Deepsea Aberdeen rig has moved away from Schiehallion Central to St Magnus Bay to undertake planned maintenance. The anchors in the field are still installed and have been laid down to the seabed.

At the moment the GeoCoral survey vessel is planning to run survey lines over the Schiehallion Central area – this vessel has an FLO onboard.

Anchor No.	Position	Surface Buoy	Chain End
Rig			
1	60°19.596'N 04°05.593'W	60°19.895'N 04°03.546'W	60°19.808'N 04°04.133'W
2	60°20.644'N 04°04.774'W	60°20.365'N 04°04.353'W	60°20.421'N 04°03.967'W
3	60°21.335'N 04°03.099'W	60°20.852'N 04°02.521'W	60°21.046'N 04°02.969'W
4	60°21.435'N 04°00.944'W	60°20.516'N 04°02.016'W	60°20.779'N 04°01.695'W
5	60°20.450'N 03°59.365'W	60°20.212'N 04°01.131'W	60°20.248'N 04°00.831'W
6	60°19.266'N 03°59.680'W	60°19.697'N 04°01.265'W	60°19.627'N 04°01.015'W
7	60°18.493'N 04°01.641'W	60°19.422'N 04°02.183'W	60°19.218'N 04°02.064'W
8	60°18.624'N 04°04.036'W	60°19.333'N 04°03.042'W	60°19.286'N 04°03.309'W

– As Laid at Kraken DC4

Anchor No.	Anchor Position	Chain End (Estimated)	Chain Pennant End	Anchor Pennant End
1	59°56.66'N 01°14.79'E	59°56.41'N 01°14.67'E	59°56.36'N 01°14.44'E	59°56.68'N 01°14.97'E
2	59°56.47'N 01°15.99'E	59°56.23'N 01°15.79'E	59°56.12'N 01°15.89'E	59°56.53'N 01°15.88'E
3	59°55.96'N 01°16.58'E	59°55.84'N 01°16.11'E	59°55.71'N 01°16.04'E	59°56.06'N 01°16.57'E
4	59°55.45'N 01°16.18'E	59°55.84'N 01°15.47'E	59°55.94'N 01°15.56'E	59°55.51'N 01°16.30'E
5	59°55.22'N 01°15.22'E	59°55.58'N 01°15.39'E	59°56.03'N 01°15.45'E	59°55.20'N 01°15.04'E
6	59°55.27'N 01°14.04'E	59°55.53'N 01°14.23'E	59°55.55'N 01°14.07'E	59°55.18'N 01°13.90'E
7	59°55.80'N 01°13.43'E	59°55.74'N 01°13.95'E	59°55.63'N 01°14.05'E	59°55.79'N 01°13.26'E
8	59°56.37'N 01°13.72'E	59°56.15'N 01°13.98'E	59°56.02'N 01°13.88'E	59°56.44'N 01°13.55'E

Aoka Mizu FPSO – Lancaster Field

Anchor or No.	Primary Anchor Position	Secondary Anchor Position	Primary Anchor Position	Secondary Anchor Position
Rig	60°10.79'N 03°52.20'W			
1	60°10.69'N 03°50.98'W	60°10.69'N 03°50.99'W	7 60°10.31'N 03°53.19'W	60°10.31'N 03°53.18'W
2	60°10.66'N 03°50.99'W	60°10.66'N 03°51.01'W	8 60°10.34'N 03°53.24'W	60°10.34'N 03°53.23'W
3	60°10.63'N 03°51.01'W	60°10.63'N 03°51.02'W	9 60°11.37'N 03°52.62'W	60°11.36'N 03°52.62'W
4	60°10.60'N 03°51.03'W	60°10.60'N 03°51.04'W	10 60°11.38'N 03°52.56'W	60°11.37'N 03°52.56'W
5	60°10.26'N 03°53.09'W	60°10.27'N 03°53.08'W	11 60°11.39'N 03°52.50'W	60°11.38'N 03°52.50'W
6	60°10.28'N 03°53.14'W	60°10.29'N 03°53.13'W	12 60°11.40'N 03°52.44'W	60°11.39'N 03°52.43'W

Glen Lyon – FPSO



Anchor No.	Position	Anchor No.	Position	Anchor No.	Position
Rig	60°21.383'N 04°04.071'W	7	60°20.531'N 04°03.269'W	14	60°21.054'N 04°05.849'W
1	60°21.811'N 04°02.375'W	8	60°20.516'N 04°03.331'W	15	60°21.084'N 04°05.872'W
2	60°21.779'N 04°02.349'W	9	60°20.506'N 04°03.393'W	16	60°22.223'N 04°04.934'W
3	60°21.755'N 04°02.298'W	10	60°20.493'N 04°03.449'W	17	60°22.236'N 04°04.873'W
4	60°21.720'N 04°02.297'W	11	60°20.955'N 04°05.765'W	18	60°22.253'N 04°04.808'W
5	60°21.691'N 04°02.274'W	12	60°20.987'N 04°05.792'W	19	60°22.264'N 04°04.737'W
6	60°20.534'N 04°03.198'W	13	60°21.019'N 04°05.824'W	20	60°22.278'N 04°04.675'W

Area 2 Anchor List

Latest Update: 23 August 2018

Blackford Dolphin – Capercaillie Field

Anchor No.	Position	Anchor No.	Position	Anchor No.	Position
Rig	56°50.055'N 001°42.779'E	3	56°50.326'N 001°43.859'E	6	56°49.399'N 001°42.302'E
1	56°50.912'N 001°42.146'E	4	56°49.805'N 001°43.926'E	7	56°49.792'N 001°41.589'E
2	56°50.911'N 001°43.405'E	5	56°49.424'N 001°43.240'E	8	56°50.369'N 001°41.353'E

West Pheonix - Anasuria Cluster – Guillemot A Field – Pre-laying Anchors

Anasuria Operating Company (AOC) are planning to sidetrack an existing well in the Guillemot A field. Prior to mobilising the drilling rig, AOC are planning to pre-lay 8 anchors in the field. The anchors will be deployed in the proposed position and tensioned up to 150MT. Two anchor handling vessels will be mobilising to the field on 2nd May 2018 (at the earliest) with the vessel due on location around the 4th May 2018. The total anchor pre-laying operation is expected to take around 2 days from the date of the vessel arriving in location.

Anchor No.	Anchor Position	Laydown Pennant	Anchor Position	Laydown Pennant
1	57°09.508'N 0°49.603'E	57°09.782'N 0°49.444'E	5 57°10.633'N 0°49.801'E	57°10.513'N 0°50.065'E
2	57°09.695'N 0°48.986'E	57°09.949'N 0°49.228'E	6 57°10.409'N 0°50.321'E	57°10.125'N 0°50.157'E
3	57°10.031'N 0°48.729'E	57°10.118'N 0°49.346'E	7 57°10.014'N 0°50.599'E	57°09.927'N 0°50.096'E
4	57°10.458'N 0°48.882'E	57°10.399'N 0°49.155'E	8 57°09.643'N 0°50.321'E	57°09.784'N 0°49.861'E

Culzean – Culzean FSO Anchors

Anchor No.	Anchor Position	Chain End	Anchor Position	Chain End
			7 57°11.068'N 001°58.558'E	57°11.143'N 001°58.456'E
1	57°11.723'N 001°56.154'E	57°11.723'N 001°56.325'E	8 57°11.096'N 001°58.621'E	57°11.167'N 001°58.509'E
2	57°11.681'N 001°56.149'E	57°11.685'N 001°56.321'E	9 57°12.444'N 001°58.413'E	57°12.364'N 001°58.326'E
3	57°11.636'N 001°56.153'E	57°11.647'N 001°56.323'E	10 57°12.464'N 001°58.343'E	57°12.381'N 001°58.266'E
4	57°11.594'N 001°56.167'E	57°11.611'N 001°56.336'E	11 57°12.483'N 001°58.271'E	57°12.397'N 001°58.203'E
5	57°11.021'N 001°58.423'E	57°11.103'N 001°58.341'E	12 57°12.500'N 001°58.195'E	57°12.412'N 001°58.138'E
6	57°11.039'N 001°58.495'E	57°11.117'N 001°58.404'E		

Catcher FPSO –



Construction vessels Skandi Skansen and Skandi Neptune working around and extending out approximately 1000m from the future Catcher FPSO

Anchor No.	Position	Anchor No.	Position	Anchor No.	Position
STP Buoy @ Future FPSO	56°46.207'N 000°42.782'E				
1	56°46.573'N 000°42.093'E	5	56°46.457'N 000°43.780'E	9	56°45.713'N 000°42.755'E
2	56°46.602'N 000°42.136'E	6	56°46.423'N 000°43.804'E	10	56°45.719'N 000°42.687'E
3	56°46.630'N 000°42.182'E	7	56°46.387'N 000°43.824'E	11	56°45.728'N 000°42.620'E
4	56°46.655'N 000°42.233'E	8	56°46.350'N 000°43.840'E	12	56°45.739'N 000°42.555'E

Area 1 Survey List

Latest Update: 23 August 2018

Company & Vessels	Towed Cable Length & Depth	Area Covered 1 (inc Quod Blocks)	Area Covered 2 (inc Quod Blocks)	Duration
MMT (UK) Limited Stril Explorer LAZT7		60°50.117'N 004°07.114'W 60°16.936'N 003°48.352'W	204, 205	20/07/2018 - 30/09/2018 For 14 Days
MMT (UK) Limited Stril Explorer LAZT7		60°51.914'N 004°13.368'W 60°51.999'N 004°03.428'W 60°48.228'N 004°03.303'W 60°48.144'N 004°13.224'W	204, 205	20/07/2018 - 30/09/2018 For 14 Days
Gardline Limited MV Ocean Reliance HP6391		59°20.576'N 001°24.899'E 59°21.410'N 001°33.885'E 59°16.507'N 001°35.622'E 59°15.675'N 001°26.657'E	9	15/09/2018 - 31/10/2018 For 15 Days
Gardline Survey M/V Kommander MCJO2		58°39.158'N 000°50.897'E	15	04/09/2018 - 30/11/2018 For 2 Days
Gardline Survey Ltd M/V Kommander MCJO2		59°19.677'N 001°21.666'E	9	04/09/2018 - 30/11/2018 For 2 Days
Gardline Survey Ltd. Ocean Reliance HP6391	1400m 3m	59°55.150'N 002°09.133'E 59°50.017'N 002°05.967'E 59°56.461'N 002°00.858'E 59°51.294'N 001°57.695'E	4, 9, 10	24/08/2018 For 19 Days
Gardline Survey Ltd Ocean Reliance HP6391	1400m 3m	59°55.117'N 002°09.034'E 59°49.984'N 002°05.867'E 59°56.428'N 002°00.758'E 59°51.261'N 001°57.595'E	10	25/08/2018 - 31/10/2018 For 14 Days
TBC	2m 5m	60°54.166'N 002°18.160'W 60°56.983'N 002°13.044'W 60°56.650'N 002°12.210'W 60°53.800'N 002°17.260'W	206	15/08/2018 - 31/01/2019 For 10 Days
CGG Services S.A Oceanic Vega LCHQ3 Geo Caribbean LADV8	8100m 12m	61°44.688'N 001°01.932'W 61°19.254'N 000°12.106'W 60°30.438'N 002°02.603'W 60°54.677'N 002°50.383'W	206, 207, 208, 209, 214	14/08/2018 - 31/10/2018 For 53 Days
MMT MV Stril Explorer LAZT7		61°05.514'N 002°39.105'W 61°05.491'N 002°31.317'W 61°00.319'N 002°31.395'W 61°00.343'N 002°39.161'W	214	31/08/2018 - 14/09/2018 For 15 Days
MG3 Survey (UK) Ltd MV Poseidon TFJC	1200m 2m	58°05.730'N 001°42.971'E 58°02.622'N 001°37.333'E 58°05.605'N 001°31.460'E 58°08.717'N 001°37.097'E	16	10/08/2018 - 15/10/2018 For 7 Days
Axxis Geo Solutions AS Geo Caspian LACW8 Neptune Naiad YBUY2 Havila Fortune C6X05 Pacific Finder POFK	140m 10m	58°50.664'N 001°35.403'E 58°32.764'N 001°30.703'E 58°32.864'N 001°19.503'E 58°50.664'N 001°25.502'E	16	05/08/2018 - 15/11/2018 For 10 Days
Polarcus Polarcus Alima C6XK4 Nordic Explorer C6TU3	8100m	60°51.416'N 002°58.670'W 61°46.345'N 000°55.411'E 61°26.059'N 000°11.961'W 60°26.023'N 002°04.468'W	206, 207, 208, 209, 214	01/08/2018 - 15/10/2018 For 60 Days
Fugro Fugro Venturer C6CG3		60°16.582'N 004°27.157'W 60°17.085'N 004°27.678'W 60°18.884'N 004°20.614'W 60°18.381'N 004°20.095'W	204	22/07/2018 - 30/09/2018 For 3 Days
DeepOcean Eda Flora - LAJW3 MV Fugro Synergy C6XR3		59°54.516'N 001°59.911'E 59°54.547'N 002°04.582'E 59°51.091'N 002°04.678'E 59°51.057'N 002°00.018'E	10	20/07/2018 - 31/10/2018 For 5 Days
Fugro GB (North) Marine Ltd MV Fugro Venturer C6CG3	1350m 3m	60°59.100'N 002°52.640'W 60°56.100'N 002°48.920'W 60°54.240'N 002°55.260'W 60°57.230'N 002°58.990'W	206	12/09/2018 - 02/09/2018 For 5 Days
Fraser Well Management Ltd		58°18.540'N 003°12.096'W 58°17.240'N 003°09.614'W 58°15.574'N 003°12.759'W 58°16.873'N 003°15.241'W	98	09/07/2018 - 30/09/2018 For 3 Days
Enquest heather Limited TBA		61°21.790'N 001°34.468'E 61°37.138'N 001°18.383'E	211	01/07/2018 - 31/08/2018 For 10 Days
Nexen Petroleum UK Limited TBC	1200m 3m	60°25.775'N 003°13.733'W 60°34.933'N 003°13.798'W 60°34.944'N 002°55.183'W 60°25.785'N 002°55.205'W	205, 206	01/07/2018 - 31/12/2018 For 4 Days

Polarcus Polarcus Alima C6XK4	8100m	62°32.419'N 000°32.816'W 61°18.117'N 002°27.134'W 61°18.405'N 003°32.036'W 62°32.925'N 001°47.243'W	208, 213, 214, 216, 217	01/07/18 - 30/09/18 For 40 days
Fugro Fugro Venturer C6CG3	150m 3m	60°34.984'N 002°47.011'W 60°36.573'N 002°47.365'W 60°45.864'N 002°32.027'W 60°45.825'N 002°27.932'W 60°42.219'N 002°24.514'W 60°36.132'N 002°25.962'W	206	01/07/2018 - 31/08/2018 For 5 Days
Fugro Fugro Venturer C6CG3	1200m 3m	58°14.205'N 001°11.911'E 58°14.329'N 001°21.103'E 58°09.481'N 001°21.327'E 58°09.357'N 001°12.156'E	16	28/06/18 - 31/08/18 For 7 days
PGS Exploration (UK) Ltd Sanco Swift ZDKY8	8050m 25m	58°37.662'N 001°35.230'W 58°37.229'N 000°57.453'W 58°29.785'N 000°56.162'W 58°21.945'N 000°54.777'W 58°22.577'N 002°41.718'W	58°25.107'N 002°40.465'W 58°31.003'N 002°40.353'W 58°32.096'N 002°38.030'W 58°34.557'N 002°32.488'W 58°37.964'N 002°32.032'W 58°37.662'N 001°35.230'W	19/06/18 - 31/10/18 For 39 days
Geo xyz bvba Geo Ocean II LXHX	1300m 3m	58°14.486'N 001°32.180'W 58°14.388'N 001°24.008'W 58°10.078'N 001°24.201'W 58°10.176'N 001°32.341'W	12; 13; 14 13	18/08/2018 - 30/11/2018 For 4 Days
Fugro Fugro Venturer C6CG3	1200m 3m	60°34.984'N 002°47.011'W 60°36.573'N 002°47.365'W 60°45.864'N 002°32.027'W 60°45.825'N 002°27.932'W 60°42.219'N 002°24.514'W 60°36.132'N 002°25.962'W	206	17/06/2018 - 31/12/2018 For 6 Days
Fairfield Nodal Ocean Pearl - C6Z/W4 Sanco Star - ZDIT8		58°04.564'N 001°05.249'W 57°51.563'N 000°44.902'W 57°51.907'N 001°05.921'W 58°04.218'N 000°44.106'W	13; 14; 19; 20	12/06/2018 - 31/12/2018 For 60 Days
EMGS ASA Atlantic Guardian LAEU6		60°40.295'N 001°38.930'E 60°40.116'N 001°51.018'E 60°53.204'N 001°52.997'E 60°12.316'N 002°00.984'E 60°25.556'N 001°31.931'E	3	11/06/18 - 31/08/18 For 20 days
Fugro Fugro Venturer C6CG3		60°22.404'N 004°17.063'W 60°24.998'N 004°11.457'W 60°22.220'N 004°06.224'W 60°19.630'N 004°11.829'W	204	29/05/2018 - 30/08/2018 For 16 Days
Fugro Survey Ltd M/V Fugro Galaxy C6YY4	230m 1m	61°36.364'N 001°30.149'E 61°36.300'N 001°35.802'E 61°33.608'N 001°35.664'E 61°33.672'N 001°30.019'E	211	01/05/2018 - 31/08/2018 For 7 Days
Schlumberger TBA		61°29.653'N 001°45.383'W	208	01/05/2018 - 31/12/2018 For 0.5 Days
PGS Exploration (UK) Ltd Sanco Swift ZDKY8		58°32.916'N 000°41.580'E 58°33.169'N 001°05.415'E 57°40.649'N 000°44.040'E 57°40.897'N 000°26.214'E 57°31.938'N 000°22.290'E	57°31.984'N 001°01.209'W 58°32.939'N 000°36.390'W 58°32.968'N 000°23.598'W 58°38.976'N 000°21.037'W 58°39.644'N 000°44.314'E	15/04/2018 - 31/10/2018 For 152 Days
CGG Services S.A Oceanic Vega LCHQ3	8000m 18m	60°55.944'N 000°54.803'E 60°56.716'N 002°03.420'E 60°23.225'N 002°09.819'E 60°22.435'N 000°56.952'E	14, 15, 16, 20, 21 2, 3	01/04/2018 - 30/09/2018 For 30 Days
Gardline Geo survey Ltd Ocean Kommandor PBQW Ocean Observer GHXX	1200m 3m	59°26.867'N 001°37.738'E 59°26.610'N 001°43.004'E 59°21.252'N 001°41.990'E 59°21.509'N 001°36.738'E	9	21/03/2018 - 31/12/2018 For 2 Days

Area 2 Survey List

Latest Update: 09 August 2018

Company & Vessels	Towed Cable Length & Depth	Area Covered 1 (inc Quod Blocks)	Area Covered 2 (inc Quod Blocks)	Duration
Fugro Survey Ltd Fugro Galaxy C6YY4		56°30.434'N N 02°08.542'E 56°39.310'N 02°24.154'E	30	28/07/2018 - 30/11/2018 For 1 Day
Fugro Survey Ltd Fugro Galaxy C6YY4		56°46.020'N 001°26.864'E 56°42.248'N 001°26.719'E 56°42.300'N 001°22.138'E 56°41.402'N 001°22.106'E 56°41.476'N 001°15.124'E 56°41.601'N 001°15.128'E	56°41.629'N 001°12.279'E 56°45.402'N 001°12.400'E 56°45.332'N 001°19.267'E 56°45.260'N 001°19.264'E 56°45.253'N 001°19.966'E 56°46.096'N 001°19.996'E 29	28/07/2018 - 30/11/2018 For 12 Days
Fugro Survey Ltd Fugro Galaxy C6YY4		57°10.016'N N 02°15.511'E 56°43.514'N 01°42.901'E	23, 29, 30	23/07/2018 - 30/11/2018 For 5 Days
MG3 Survey(UK) Ltd MV Poseidon TFJC	1200m 5m	57°59.628'N 001°44.719'E 58°00.987'N 001°53.845'E 57°55.255'N 001°56.838'E 57°53.907'N 001°47.698'E	16, 22	20/07/2018 - 26/09/2018 For 21 Days
Gardline Geosurvey M/V Kommandor MCJO2		57°56.502'N 000°05.937'E	20	04/09/2018 - 30/11/2018 For 2 Days
Gardline Limited Ocean Reliance HP6391 Kommandor MCJO2	1200m 5m	57°58.203'N 001°49.113'E 57°58.231'N 001°52.155'E 57°56.614'N 001°52.206'E 57°56.614'N 001°52.206'E 57°56.587'N 001°50.411'E	22	01/09/2018 - 30/09/2018 For 7 Days

Gardline Survey Ltd. M/V Sea Explorer; C6NG6 M/V Kommander; MCJO2	1400m 3m	57°52.245'N 001°51.637'E 57°52.360'N 002°05.844'E 57°43.962'N 001°51.898'E 57°44.075'N 002°06.051'E	22, 23	16/08/2018 For 20 Days
PGS Exploration (UK) Limited Ramform Atlas C6AX2	8100m 25m	57°30.178'N 002°05.985'E 57°28.672'N 002°07.408'E 57°29.544'N 002°10.354'E 56°59.326'N 002°25.298'E 56°55.457'N 002°12.398'E 56°58.827'N 002°09.283'E	57°21.786'N 001°47.777'E 57°27.464'N 001°42.378'E 57°29.988'N 001°50.825'E 57°31.984'N 001°57.539'E 57°33.541'N 002°02.800'E	15/08/2018 - 31/10/2018 For 33 Days
Fugro Survey Ltd MV Fugro Galaxy C6YY4	1300m 3m	56°48.749'N 001°31.639'E 56°53.060'N 001°31.815'E 56°52.959'N 001°39.689'E 56°48.649'N 001°39.498'E	29	12/08/2018 - 30/11/2018 For 4 Days
Fugro Survey Ltd MV Fugro Galaxy C6YY4	1300m 3m	57°07.974'N 002°11.272'E 57°12.283'N 002°11.527'E 57°12.140'N 002°19.466'E 57°07.832'N 002°19.195'E	23	08/08/2018 - 30/11/2018 For 4 Days
PGS Exploration (UK) Limited MV Bravo Sapphire MV Storm West	8050m 25m	57°48.597'N 001°38.793'W 57°46.208'N 001°47.305'W 57°46.147'N 001°52.642'W 57°45.323'N 002°16.713'W 57°47.782'N 002°27.776'W 58°02.415'N 002°58.171'W 58°08.706'N 002°40.983'W 58°10.901'N 002°41.665'W	58°22.503'N 002°08.802'W 58°27.306'N 001°55.494'W 58°25.804'N 001°35.856'W 58°18.961'N 001°36.019'W 58°11.284'N 001°19.039'W 58°07.305'N 001°27.943'W 57°59.424'N 001°10.758'W	09/08/2018 - 31/10/2018 For 74 Days
Shearwater GeoServices Ltd MV Polar Duchess 5BJC3		57°59.027'N 000°47.891'E 57°55.780'N 001°05.202'E 57°33.224'N 000°55.172'E 57°35.554'N 000°37.378'E	21, 22	20/07/2018 - 31/10/2018 For 4 Days
Fraser Well Management Limited		58°18.540'N 003°12.096'W 58°17.240'N 003°09.614'W 58°15.574'N 003°12.759'W 58°16.873'N 003°15.241'W	11	09/07/2018 - 30/09/2018 For 3 Days
Fugro Survey Ltd Fugro Venturer C6CG3		56°54.073'N 002°22.905'E 57°01.893'N 001°57.228'E	22, 23, 30	01/07/2018 - 30/11/2018 For 5 Days
Enesco Drilling Rig Contract Enesco 101		57°24.307'N 001°35.904'E		17/06/2018 - 15/10/2018 For 13.5 Day
CGG Geo Coral - LACA8 Geowave Caribbean LADV8	15m 7m	58°53.605'N 001°35.569'E	16	01/05/2018 - 01/10/2018 For 1 Day
Gardline Geosurvey Ltd MV Ocean Kommandor PBQW Sea Explorer C6NG6		57°19.242'N 001°37.327'E 57°17.775'N 001°42.500'E 57°14.904'N 001°39.865'E 57°11.521'N 001°45.451'E 57°09.441'N 001°47.017'E 57°07.265'N 001°37.481'E 57°15.200'N 001°33.264'E	22	21/03/2018 - 31/12/2018 For 3 Days

Area 3 Survey List

Latest Update: 09 August 2018

Company & Vessels	Towed Cable Length & Depth	Area Covered 1 (inc Quod Blocks)	Area Covered 2 (inc Quod Blocks)	Duration
Fugro Survey Limited M.V. Fugro Venturer C6CG3		53°03.105'N 1°33.974'E 53°09.187'N 1°33.771'E 53°11.495'N 1°37.955'E 53°11.712'N 1°59.743'E 52°55.954'N 2°00.108'E 52°55.826'N 1°46.385'E	48, 52	31/07/2018 - 30/09/2018 Approx. 30 Days
Fugro GB (North) Marine Limited MV Fugro Venturer C6CG3		53°52.990'N 001°13.837'E 53°52.949'N 001°11.100'E 53°51.332'N 001°11.170'E 53°51.372'N 001°13.905'E 53°52.423'N 001°12.035'E 53°52.437'N 001°12.947'E 53°51.898'N 001°12.970'E 53°51.884'N 001°12.058'E	48	31/08/2018 - 30/09/2018 For 1.5 Days
Fugro Survey Limited Skandi Olympia C6XY8 Fugro Valkyrie 2BWA9 or Fugro Seeker 2HCS2		53°08.532'N 001°39.721'E 53°04.626'N 001°55.600'E 53°00.862'N 001°32.305'E 52°58.587'N 001°50.850'E 52°58.541'N 001°36.046'E 52°53.094'N 001°25.851'E 52°51.046'N 001°29.324'E	48, 52	30/07/2018 - 31/10/2018 For 50 Days
MG3 Survey UK Ltd Poseidon TFJC	600m 3m	53°26.432'N 001°28.420'E 53°23.716'N 001°30.417'E 53°22.632'N 001°26.293'E 53°25.346'N 001°24.288'E	48	15/09/2018 - 31/10/2018 For 6 Days
Fugro Fugro Meridian C6QR4	100m 30m	53° 42.08'N 00° 10.08'E 53° 54.02'N 00° 25.76'E 53° 52.90'N 00° 28.02'E 53° 39.61'N 00° 11.20'E	47	05/09/2018 - 25/10/2018 For 5 Days
Fugro Fugro Seeker 2HCS2	15m 5m	53° 39.00'N 00° 07.40'E 53° 40.00'N 00° 06.10'E 53° 42.20'N 00° 13.00'E 53° 41.00'N 00° 14.00'E	47	05/09/2018 - 25/10/2018 For 15 Days
Fugro Survey Limited TBC		52°37.139'N 002°46.842'E	53	03/09/2018 - 12/12/2018 For 8 Days
Fugro GB (North) Marine Limited MV Fugro Venturer C6CG3		53°54.843'N 001°08.765'E 53°52.382'N 001°16.887'E 53°48.545'N 001°13.554'E 53°51.003'N 001°05.441'E	48	31/08/2018 - 30/09/2018 For 9 Days

Fugro GB (North) Marine Limited MV Fugro Venturer C6CG3		54°04.700'N 000°27.287'E 54°04.758'N 000°30.035'E 54°03.142'N 000°30.132'E 54°03.084'N 000°27.385'E 54°04.181'N 000°28.235'E 54°04.200'N 000°29.151'E 54°03.661'N 000°29.184'E 54°03.642'N 000°28.268'E	42	31/08/2018 - 30/09/2018 For 1.5 Days
Fugro GB (North) Marine Limited MV Fugro Venturer C6CG3		53°58.569'N 001°11.748'E 53°58.610'N 001°14.491'E 53°56.992'N 001°14.559'E 53°56.952'N 001°11.818'E 53°58.044'N 001°12.685'E 53°58.057'N 001°13.622'E 53°57.518'N 001°13.622'E 53°57.504'N 001°12.708'E	48	31/08/2018 - 30/09/2018 For 1.5 Days
Tideway Offshore Solutions Seahorse PCAP		54°34.146'N 002°17.466'E	44	11/08/2018 - 11/09/2018 For 0.5 Days
Benthic Solutions Limited TBC		52°51.897'N 001°27.768'E 52°52.184'N 001°28.240'E 52°51.843'N 001°28.699'E 52°52.128'N 001°28.184'E	52	08/08/2018 - 30/09/2018 For 7 Days
Fugro Survey Limited MV Fugro Venrurer C6CG3	1200m	52°39.081'N 002°43.500'E 52°39.093'N 002°49.708'E 52°35.317'N 002°49.723'E 52°35.306'N 002°43.523'E	53	31/07/2018 - 30/09/2018 For 10 Days

Area 4 Survey List

Latest Update: 09 August 2018

Company & Vessels	Towed Cable Length & Depth	Area Covered 1 (inc Quod Blocks)	Area Covered 2 (inc Quod Blocks)	Duration
Fraser Well Management Ltd	700m	50°40.405'N 001°47.687'W 50°38.150'N 001°47.687'W 50°38.150'N 001°52.150'W 50°40.426'N 001°52.126'W	98	20/07/2018 - 31/10/2018 For 3 Days

Area 5 Survey List

Latest Update: 09 August 2018

Company & Vessels	Towed Cable Length & Depth	Area Covered 1 (inc Quod Blocks)	Area Covered 2 (inc Quod Blocks)	Duration
James Fisher & Sons plc Halcyon days MDFP2 Fast Fisher 2GGN4		53°23.240'N 003°25.270'W 53°23.215'N 003°21.398'W 53°21.397'N 003°18.967'W 53°21.077'N 003°23.251'W	110	01/05/2018 - 31/12/2018 For 25 Days